RNATIONAL SEARCH REPORT

ional Application No

PCT/EP2004/009423. A. CLASSIFICATION OF SUBJECT MATTER CO7D317/36 B01J C08G65/02 C08F8/00 B01J31/22 C08L67/00 H01M10/40 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) CO7D B01J C08G C08F C08L H01M Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched. Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, CHEM ABS Data, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO 03/022796 A (ROEHM GBMH & CO. KG; 1-8 SCHMITT, BARDO; KNEBEL, JOACHIM; CASPARI, MAIK) 20 March 2003 (2003-03-20) page 4, paragraph 4 - page 6; examples 3-7 Υ EP 1 201 640 A (ATOFINA) 1-8 2 May 2002 (2002-05-02) page 2, line 19 - page 3; examples 2,5 Y EP 0 837 049 A (ROHM AND HAAS COMPANY) 1-8 22 April 1998 (1998-04-22) claims 1-6; examples 5,7,8 EP 0 328 150 A (DAINIPPON INK & CHEMICALS, Υ 1-8 INC) 16 August 1989 (1989-08-16) page 2, line 38 - page 3, line 54; claims 1-8; example 14 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 03. 03. 2006 23 February 2006 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016

6

Kyriakakou, G

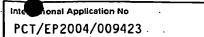
INTERNATIONAL SEARCH REPORT

Intermional Application No
PCT/EP2004/009423

tegory °	· Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
. •	EP 0 236 994 A (BASF AKTIENGESELLSCHAFT) 16 September 1987 (1987-09-16) page 3 - page 5, line 20; examples 2-4	1-8
	DE 39 37 116 A1 (DAINIPPON INK AND CHEMICALS, INC., TOKIO/TOKYO, JP) 8 May 1991 (1991-05-08) cited in the application page 2, line 55 - page 4, line 15	1-8
	FR 2 747 596 A (ELF ATOCHEM SA) 24 October 1997 (1997-10-24) page 3, line 22 - page 5, line 3; claim 6	1-8
,	US 4 202 990 A (MURAKAMI, FUMIKI ET AL) 13 May 1980 (1980-05-13) claims 1-12; examples 1-17; tables 1-3	1-8
Y .	US 2 979 514 A (O'BRIEN JOSEPH L ET AL) 11 April 1961 (1961-04-11) column 2 - column 3, line 20; example A	1-8
X	EP 0 001 088 A (BASF AKTIENGESELLSCHAFT) 21 March 1979 (1979-03-21) page 3, line 15 - page 8, line 20	9,11
X	US 5 374 699 A (IWAMURA ET AL) 20 December 1994 (1994-12-20) column 1 - column 12, line 61	9,11
X .	US 4 882 391 A (BRINDOEPKE ET AL) 21 November 1989 (1989-11-21) column 1 - column 9, line 5; claims 1-11; examples II-II1	9,11
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2003 327854 A (JAPAN PAINT MANUFACTURERS ASSOCIATION), 19 November 2003 (2003-11-19) abstract	9,11
X	EP 0 908 905 A (MITSUI CHEMICALS, INC) 14 April 1999 (1999-04-14) page 3 - page 11, line 5; claims 1-10; example 1	10
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 05, 14 September 2000 (2000-09-14) & JP 2000 040526 A (MITSUI CHEMICALS INC.), 8 February 2000 (2000-02-08) abstract	10

6





Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
<u>.</u> X	PATENT ABSTRACTS OF JAPAN & JP 03 156803 A (FUJI PHOTO FILM CO LTD), 4 July 1991 (1991-07-04) abstract	10		
X	US 4 423 235 A (BURGARD ET AL) 27 December 1983 (1983-12-27) column 1 - column 6; claims 1-9; example 7			
X	FR 2 539 740 A (POUDRES EXPLOSIFS STE NALE) 27 July 1984 (1984-07-27) page 1 - page 7; claims 1-13	. 12		
-				
•				
		•		
	·			
•				
	·			
	·			

6

10/580840

IAPO Rec'APCTIPTO 26 MAY 2005

INTERNATIONAL SEARCH REPORT

PCT/EP2004/009423

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This inte	mational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	SEE SUPPLEMENTAL SHEET
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2004/009423

The International Searching Authority has found that the international application contains multiple (groups of) inventions, as follows:

1. Claims: 1-8

Claims 1-8 relate to a method for producing a known compound (2-oxo-1,3-dioxolan-4-yl)methylmethacrylate.

2. Claims: 9-12

Claims 9-12 relate to the use of a known compound

(2-oxo-1,3-dioxolan-4-yl)methylmethacrylate

- a) as a cross-linking agent in adhesives and paints (claim 9)
- b) as a battery electrolyte (claim 10)
- c) in extrusion resins (claim 11)
- d) for metal extraction (claim 12).

Form PCT/ISA/210

INSERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No PCT/EP2004/009423

							2004/009423
	atent document d in search report		Publication . date		Patent family member(s)		Publication date
WO	03022796	Α	20-03-2003	DE EP JP	10145228 1423354 2005502698	A·1	24-04-2003 02-06-2004 27-01-2005
		·		ŬS	2004249191		09-12-2004
EP	1201640	Α	02-05-2002	CN FR	1349972 2815631		22-05-2002 26-04-2002
•	•			JP	2002179619	A	26-06-2002
	_		•	TW	528749		21-04-2003
		· 		US 	2002123643	A1 	05-09-2002
EP	0837049	. A ·	22-04-1998	AU Au	734075 3991297		31-05-2001 23-04-1998
				BR	9705048		18-05-1999
				CA	2217420		17-04-1998
		•		DE	69714373		05-09-2002
	٠,			DE	69714373		13-02-2003
		· -		JP 	10120626		12-05-1998
ΕP	0328150	Α	16-08-1989	DE	3804820		17-08-1989
	•			JP JP	2000787 2827249		05-01-1990 25-11-1998
ΕP	0236994	Α	16-09-1987	JP JP	2016047 7049421		19-02-1996 31-05-1995
				JP	62223175		01-10-1987
				ŬS	4777265		11-10-1988
DE	3937116	A1	08-05-1991	NONE			
FR	2747596	Α.	.24-10-1997	NONE			
US	4202990	A _.	13-05-1980	DE GB	2805702 1573071		17-08-1978 13-08-1980
US	2979514		11-04-1961	FR	1207790	Α	18-02-1960
				GB	877243	Α	13-09-1961
EP	0001088	A	21-03-1979	NONE			
US	5374699	Α	20-12-1994	NONE		·	· .
US	4882391	Α	21-11-1989	CA	1334237		31-01-1995
				DE Ep	3644373		07-07-1988 20-07-1988
				ES	0274721 2059353		20-07-1988 16-11-1994
				JP	63168405		12-07-1988
JP	2003327854	A	19-11-2003	NONE			·
EP	0908905	Α	14-04-1999	CN	1211053		17-03-1999
				SG	65094		25-05-1999
				US 	6315918	<u></u>	13-11-2001
	2000040526	Α	08-02-2000	NONE			
JP							

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intermonal Application No PCT/EP2004/009423

Patent document cited in search report		Publication date	•	Patent family member(s)		Publication date
US 4423235	Α	27-12-1983	AU	535585 B2.4		29-03-1984
			AU	5738180 A [®]		16-10-1980
			BR	8002290 A	•	02-12-1980
			CA	1155131 Al	÷	11-10-1983
			DE	3061251 D1	\$	13-01-1983
			EP	0018259 Al	-3-1	29-10-1980
			ES	8100801 Al		16-02-1981
			FR	2453859 A1		07-11-1980
			JP	55141482 A		05-11-1980
			US	4499057 A		12-02-1985
•			ZA	8001884 A		29-04-1981
·			ZW	8080 A1		15-10-1980
FR 2539740	A	27-07-1984	NONE			